## CLAIMS

What is claimed is:

1. A method for eliminating noise signals adopted for use in a radio signal receiving device to correct noise signals bits in sampling bits, the radio signal receiving device receiving series data from a computer peripheral device, the radio signal receiving device being connected to a computer system through a universal series bus (USB) for transmitting the series data to the computer system, the method comprising steps of:

receiving a new sampling bit and storing a first sampling bit from a plurality of sampling bits;

comparing the voltage level of every sampling bit in the sampling data bits to determine whether the new sampling bit is a noise signal bit; and

correcting the noise signal bit based on the voltage level of the first sampling bit and the last sampling bit of the sampling bits.

2. The method of claim 1 further comprising steps of:

determining present voltage level based on present sampling bits number;

calculating number of the stored first sampling bits that have the same voltage level; and

determining whether the number is coincided with the width of a data bit based on the sampling bit number of a preceding voltage level, arranging sampling bit sets coinciding with the width of the data bit, and gathering complete data package for transferring to the computer system through the USB.

3. The method of claim 2, wherein in the step of determining present voltage level, the voltage level of the sampling bits is set as the present voltage level after receiving a plurality of sampling bits of the same voltage level.

4. The method of claim 2, wherein in the step of determining present voltage level, when the voltage level of the last receiving sampling bit is different from that of the received sampling bits, the voltage level of the received sampling bits is set as the present voltage level.